

USCMS Engineer Status Report for October 2004

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1 Work Performed This Month

McRunjob Development: 1. Invested more time on covering more use cases for Publishing (Hit + Digi together), initial testing is done. 2. Started looking at Phasing out Spawn() from InputPluginRefDB, faced several problem. 3. Tested Publishing without Providing Assignment Type on commandline, that makes it much easy to use for users. 4. Fixed "rfio" bug raised by Tony. 5. InitHit/DigiOwner was added to IPRD and Publish Service. 6. Worked use Publish Service directly into Job creation. i. A proof of concept (working macro without spawn() tested) ii. A proof of concept, working macro using Publish Service in Digi job creation tested. iii. Some changes were required in Publish Service, done and tested. a. Generalized runid dir name. b. Generalized EVDCatalog name, with an optional catalog name prefix option. c. Let old catalogs be preserved as ".OLD" instead of deny running the Publishing, if catalog already exists. 7. Tested macro for Digi and Hit Publishing done Together in one step, that could be useful later for some of the use cases, though deemed not very urgent in current release. 8. Developed a new Configurator, Pool Skimmer, that extracts interesting information from user Federation catalogs, and Publishes a catalog that could be used for Job creation by ImpalaLite. Tested, integrated this configurator with McRunjob. 9. Tested all Production stages for job creation, tested all Publish with new Publish Service, removed development and integration bugs. 10. Several smaller bug reports concerning documentation discrepancies and setup scripts were raised by CERN, I resolved them. 11. Two pre-releases are

made, and they are being tested. 12. Engaged into exhaustive discussion about serious design issues in the development of LCG Configurators.

SC2004 Demo Preparation: 1. Coordinating the demo deployment activities, working with developers and Facility. 2. MOPService is deployed and integrated on demo machine, and tested to work with other components. We can now submit jobs remotely and browse results (root files). This task involved, a. Testing DPE releases, tested 03 pre-releases of DPE-Clarens. b. Changes were suggested to DPE-Clarens package and tested them as pre-releases became available. c. Problem with Proxy usage by Clarens server found, and that was fixed by Conrad. d. Worked on MOPService Submission. Worked on design/deployment issues with the team.

2 Status of Deliverables

1. McRunjob is release ready with following very important features, all developed by me.

A. Publish Service, that works in all environments, dcache, rfiio, local. B. Job creation process is simplified with using Publish Service. C. EVDSservice is completely deprecated (That was developed during DC04 in rush without any design considerations). D. path is well paved for further improvements in McRunjob, with Publish Service.

2. SC04 demo is well deployed and tested, with MOPService running as a web service. This paves path for a user analysis service running over the GRID.

3 Plans For Next Month

1. Continue Propagation of Publish Service into McRunjob./ 2. Continue removal of non-standard code, like perl and shell calls in McRunjob. 3. Continue working with MCPS to bring it upto mark with Production. 4. Continue working with MOPService to setup an Analysis Service. 5. Continue working with McRunjob-LCG to develop GRID submission on a common base for both LCG and MOP.

4 Longer Term Plans

1. Inclusion of MOPdb into MCPS Services. 2. Evaluation/Inclusion of GridCat into MOP Submission. 3. Continue Propagation of Publish Service into McRunjob./ 4. Continue removal of non-standard code, like perl and shell calls in McRunjob. 5. Continue working with MCPS to bring it upto mark with Production. 6. Continue working with MOPService to setup an Analysis Service. 7. Continue working with McRunjob-LCG to develop GRID submission on a common base for both LCG and MOP.